

WHAT IS CLAIMED IS:

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1. An object having a portion to be in contact with another object, said portion being made of at least one kind of material selected from a group including polymer material such as resin or rubber as well as glass, and said portion having a surface entirely or partially coated with a carbon film having a wear resistance as well as at least one of a lubricity, a water repellency and a gas barrier property.

10 2. The object according to claim 1, wherein said carbon film is a diamond like carbon film.

3. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance and a lubricity, and said object having said portion is a machine part.

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15 4. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance and a lubricity, and said object having said portion is a structure component member.

20 5. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance and a lubricity, and said object having said portion is a toy or its part.

6. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance, a lubricity and a gas barrier property, and said object having said portion is a machine part.

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7. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance, a lubricity and a gas barrier property, and said object having said portion is a pipe.

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8. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance, a lubricity and a water repellency, and said object having said portion is a bicycle part.

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9. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance, a lubricity and a water repellency, and said object having said portion is a sheet.

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10. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear

resistance, a lubricity and a water repellency, and said object having said portion is a sport article or its part.

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11. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance, a lubricity, a water repellency and a gas barrier property, and said object having said portion is an automobile tire.

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12. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance, a lubricity, a water repellency and a gas barrier property, and said object having said portion is a bicycle tire.

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13. The object according to claim 1 or 2, wherein said carbon film has a wear resistance and a water repellency, and said object having said portion is a machine part.

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14. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance and a water repellency, and said object having said portion is a rain article and its part.

15. The object according to claim 1 or 2, wherein said portion to be in contact with said another object is made of polymer material, said carbon film has a wear resistance and a water repellency, and said object having said portion is a diaphragm of a diaphragm pump.

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